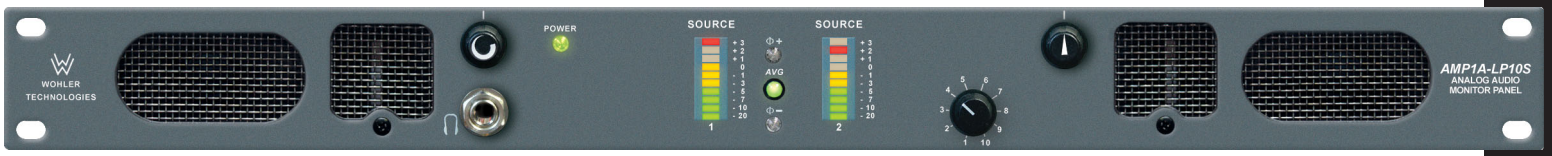
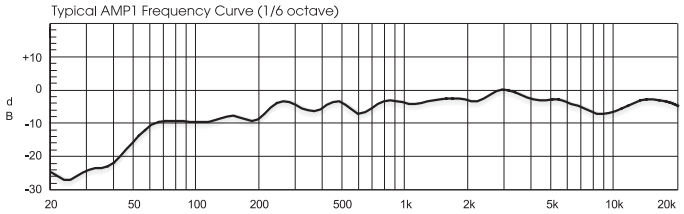
World Leader •In-Rack• Audio & Video Monitoring

WOHLER AMP1A-LP10S

January 16, 2004

Compact, High Quality Analog Self-Powered Speaker System - 10 Stereo Channels





Features:

Full Fidelity Audio Monitoring in only 1U of rack space
20 Balanced Analog Inputs (10 Stereo, Select 1)
Balanced Analog Output of Selected Stereo Source
Powerful 98dB SPL at 2 feet (0.6m)
Two 10 Segment Tri-Color Level Meters Displaying VU or PPM
Premium Quality Drivers & Power Amplifiers
Extended Frequency Response and Low Distortion
Focused Sound, Reduces Adjacent Bay Crosstalk
Audible Indication of Phase/Polarity Problems
Innovative LED Display of Phase/Polarity Relationships
Thorough Magnetic Shielding for Placement next to Video Monitors
Headphone Jack, Mutes Speakers
Blowout Proof Speakers
Quick and Simple Installation

The AMP1A-LP10S provides self-powered, full-fidelity stereo audio monitoring in the smallest rack space possible. A front panel switch allows the operator to select one stereo source for monitoring & output from up to 10 stereo analog inputs (20 channels). The AMP1A-LP10S features two 10 segment LED level meters showing VU or PPM for accurate level-metering. This unit contains four high performance transducers driven by three power amplifiers: one amplifier/driver combination handles midrange and high frequency information in stereo, while the second handles summed low frequency information below the 500 Hz crossover point.

The unique design provides optimally focused sound for operators in an Ultra Near Field (1 to 3 ft.) working environment and offers performance comparable to that of many separate monitor pairs, yet does so without the installation hassles, awkward speaker placements and "added-on" look. This provides for a higher SPL for the operator while reducing overall ambient sound and adjacent bay crosstalk.

Extended HF response reveals potential problems with audio whine or hiss and electronic rather than acoustic cancellation of bass frequencies provides positive audible detection of out-of-phase (reversed polarity) audio feeds. A headphone jack is provided on the front panel, usage automatically mutes the speakers. The front panel features an innovative LED Display of Phase/Polarity Relationships. Output limiter circuits are incorporated to protect the speakers, and extensive magnetic shielding allows placement immediately adjacent to video monitors with no color impurities.

The AMP1A-LP10S is ideally suited for use in VTR bays, mobile production vehicles, teleconferencing installations, multimedia systems, satellite link and cable TV facilities, and on-air radio studios. Built and rigorously tested in the USA, the AMP1A-LP10S is backed by a strong warranty and a "Satisfaction Guaranteed" return policy.

Wohler

Audio Monitoring | Level Metering | Alarm Systems | Video Monitoring

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WOHLER AMP1A-LP10S

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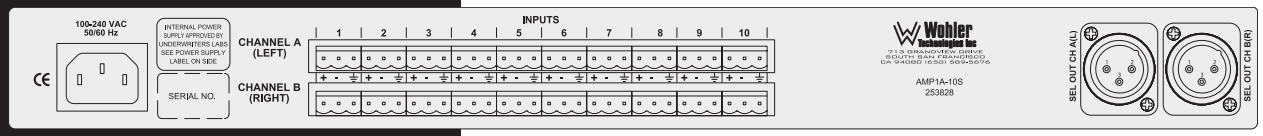
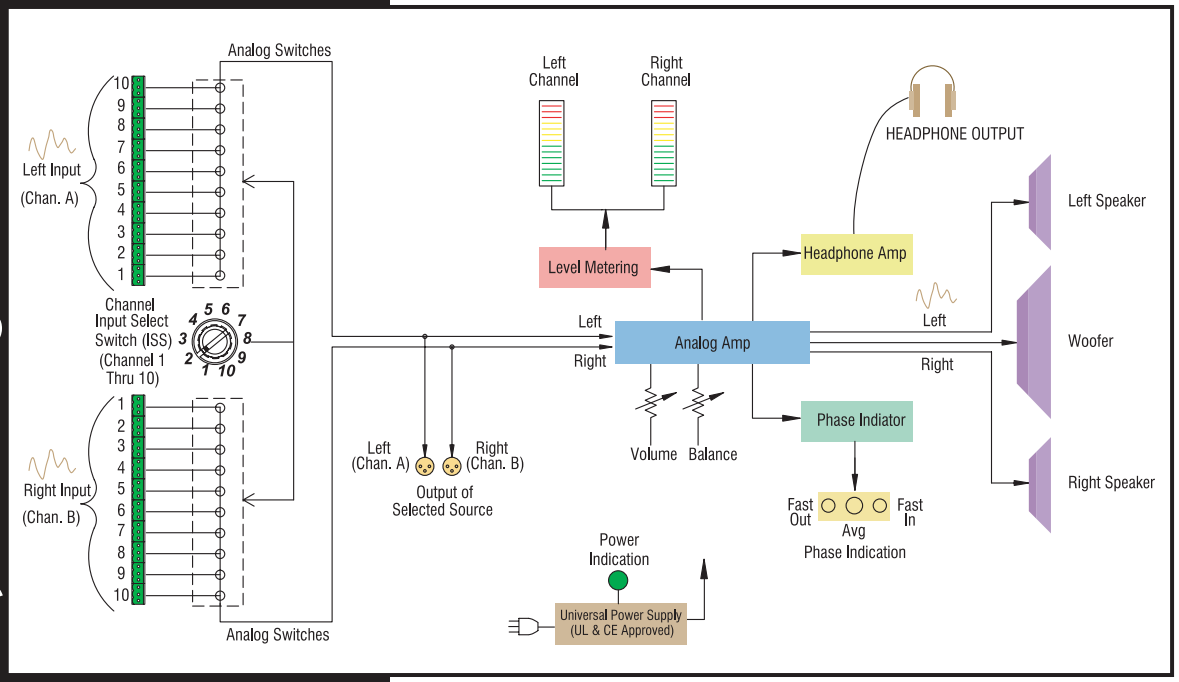
Rear Panel:



System Diagram:



Specifications:

Input	10 stereo balanced analog - phoenix terminals
Output	balanced analog output of selected pair - XLR
Level meters	2 x 10 segment bargraphs
Level meter scale	+3 to -20 dB
Level meter threshold	-6, 0, +4, +8 dBv: DIP switch selectable
Level meter dynamics	VU or PPM: DIP switch selectable
Midscale resolution	1 dB
Analog input impedance	>40 kOhms balanced
Peak acoustic output @ 2 feet	98dB SPL
Frequency response (1/6 octave)	80Hz - 20kHz (±5dB) (-10dB @ 50Hz, 22kHz)
Power output	RMS each side (2 Ohms) - 5W, 7W peak RMS dual WOOFER (4 Ohms) - 11W, 16W peak
Electrical distortion	<0.15% at any level below limit threshold
Acoustic distortion	.8% or less worst case frequencies above 180Hz including cabinet resonance, typically <2%
Hum and noise	better than -68dB below full output
Magnetic shielding	<0.5 gauss any adjacent surface
Power consumption (AVG. MAX.)	30W
Dimensions (HxWxD)	1.75 x 19 x 12″ (44.5 x 483 x 305mm)
Weight (approx.)	9.5lbs (4.3kg)
Power supply	100 to 240VAC, 50/60Hz universal input CE and UL approved

All specifications are subject to improvement

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